Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-53 (cancelled)

54. (previously presented) An apparatus for printing images from digital image data onto a light sensitive medium disposed at an image plane, the apparatus comprising:

(a) a control logic processor capable of controlling the operation of said apparatus for printing based on said digital image data;

(b) an image forming assembly for directing, onto said light sensitive medium disposed at said image plane, an exposure beam for printing, said image forming assembly comprising:

(1) a light source for providing light exposure energy for imaging onto said light sensitive medium;

(2) a first lens assembly for directing said light exposure energy to a spatial light modulator;

(3) a beamsplitter which directs said light exposure energy to said spatial light modulator;

(4) a temperature profile control apparatus for controlling a temperature profile of said beamsplitter;

(5) said spatial light modulator having a plurality of individual elements capable of altering a polarization state of said light exposure energy to provide an exposure beam for printing, a state of each of said elements controlled by said control logic processor according to said digital image data; and

(6) a second lens assembly for directing said exposure beam onto said light sensitive medium.

55. (original) The apparatus of claim 54 wherein said temperature profile controller comprises a heat sink.

56. (original) The apparatus of claim 54 wherein said temperature profile controller comprises a thermo-electric cooler.

57. (previously presented) The apparatus of claim 54 wherein said temperature profile controller comprises a multi-element temperature controller.

58. (original) The apparatus of claim 54 wherein said temperature profile controller comprises a localized environmental controller.

59. (original) The apparatus of claim 54 wherein said temperature profile controller provides a uniform temperature profile.

60. (original) The apparatus of claim 54 wherein said temperature profile controller comprises a calculated profile.

61. (original) The apparatus of claim 54 wherein said second lens assembly comprises a polarizer.

62. (original) The apparatus of claim 54 wherein said second lens assembly comprises a beamsplitter.

63. (original) The apparatus of claim 54 wherein said second lens assembly comprises a zoom lens.

64. (original) The apparatus of claim 54 wherein said second lens assembly comprises a turret with at least two lenses.

65. (original) The apparatus of claim 54 wherein said spatial light modulator is movable to at least two distinct locations.

66-95 (cancelled)

96. (previously presented) A method for printing an image from digital image data onto a photosensitive medium, comprising:

(a) selecting, from a set of available layout formats, a selected format;

(b) correlating a grouping of exposure elements on a spatial light modulator with said selected format;

(c) modulating said grouping of exposure elements based on said digital image data;

(d) directing an exposure beam toward said spatial light modulator to provide an imaging beam;

(e) directing said imaging beam toward said photosensitive medium; and

(f) controlling a temperature profile of said spatial light modulator.

97. (original) The method for printing as in claim 96 wherein the step of selecting comprises the step of sensing a width dimension of said photosensitive medium.

98. (original) The method for printing as in claim 96 wherein a member of said set of available layout formats uses a single image.

99. (original) The method for printing as in claim 96 wherein a member of said set of available layout formats uses a plurality of images.

100. (previously presented) A method for printing an image from digital image data onto a photosensitive medium, comprising:

(a) selecting, from a set of available layout formats, a selected format;

(b) correlating a grouping of exposure elements on each of a plurality of spatial light modulators with said selected format;

(c) modulating said grouping of exposure elements on said each of said plurality of spatial light modulators based on said digital image data;

(d) directing an exposure beam toward said spatial light modulators to provide an imaging beam;

(e) directing said imaging beam toward said photosensitive medium; and

(f) controlling a temperature profile of said each of said plurality of spatial light modulators.

101. (original) The method for printing as in claim 100 wherein said plurality of spatial light modulators are disposed on the same side of a beamsplitter element.

102. (original) The method for printing as in claim 100 wherein said plurality of spatial light modulators are disposed on different sides of a beamsplitter element.

103. (cancelled)